



August 5, 2022

Mr. Griff Miller
USEPA Region 3, 3LC30
1650 Arch St.
Philadelphia, PA 19103-2029

Dear Mr. Miller:

Subject: 2022 Annual Report
Inactive Portion of Former ARCO Chemical Company
East Landfill Area, Monaca, PA
CEC Project 142-329

Civil & Environmental Consultants, Inc is submitting the enclosed 2022 Annual Report for the East Landfill Area on behalf of the Beaver County Corporation for Economic Development (BCCED).

The United States Environmental Protection Agency (USEPA) issued a Statement of Basis (SB) in August 2018 for the **inactive portions of the former ARCO Chemical Company**, including the East Landfill Area. The SB required a Post-Remediation Care Plan (PRCP) be established. This plan was approved by you in June 2019.

This report documents inspection activities conducted in accordance with the *Inspection and Maintenance Plan*, outlined within the PRCP for the East Landfill Area. Included are details regarding quarterly inspections of the final cover system. Site visits occurred on September 27 2021, December 15, 2021, March 23, 2022, and June 23, 2022.

After review of the 2020 Annual Report, concentrations of monitored parameters were below the USEPA Maximum Contaminant Level (MCL) and the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (MSC) through all four quarters of monitoring. The USEPA and Pennsylvania Department of Environmental Protection (PADEP) authorized the **decommissioning of monitoring wells EL-6, EL-7 and EL-8** in emails dated July 22, 2020 and July 23, 2020. Monitoring well abandonment took place August 27-28, 2020 and was documented in *2020 Monitoring Well Abandonment* sent via email to the USEPA dated November 13, 2020.

We are available to discuss this report at your convenience if any questions or concerns arise during your review.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Brianne J. Hastings, P.G.
Project Manager

Martin C. Knuth, P.G.
Vice President

Enclosure: 2022 Annual Report

cc: Matthew Barch, PADEP
Lew Villotti, BCCED

2022 ANNUAL REPORT

LE PETOMANE EAST LANDFILL AREA
MONACA, PA

Prepared For:

BEAVER COUNTY CORPORATION FOR ECONOMIC DEVELOPMENT

Prepared By:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
PITTSBURGH, PA

CEC Project 142-329

AUGUST 2022



Civil & Environmental Consultants, Inc.

TABLE OF CONTENTS

1.0	INTRODUCTION AND PURPOSE	1
2.0	INSPECTION AND MAINTENANCE SUMMARY	2
2.1	Final Cover Condition.....	2
2.2	Groundwater Monitoring Well Condition	2
2.3	Stormwater Management Devices	2
2.4	East Landfill Area Security System.....	2
3.0	CONCLUSION	3

FIGURE

Figure 1 – Site Layout

APPENDICES

Appendix A – O & M Inspection Forms (Third Quarter 2021 through Second Quarter 2022)

Appendix B – Photo Logs (Third Quarter 2021 through Second Quarter 2022)

1.0 INTRODUCTION AND PURPOSE

The United States Environmental Protection Agency (USEPA) issued a Statement of Basis (SB) in August 2018 for the inactive portions of the former ARCO Chemical Company, including the East Landfill Area (USEPA, 2018), located in Monaca, PA. The SB outlines the USEPA's proposed remedy for the facility which consists of monitored natural attenuation (MNA) at the former waste disposal areas, compliance with a Post-Remediation Care Plan (PRCP), and the implementation of land and groundwater use restrictions.

The Beaver County Corporation for Economic Development (BCCED) purchased East Landfill Area from Le Petomane XXIII, Inc. (Le Petomane) in order to provide a buffer area for the Shell ethane cracker plant under construction. As such, BCCED has assumed the operational and maintenance (O&M) obligations for the East Landfill Area from Le Petomane. Mr. Griff Miller at USEPA sent an e-mail to the BCCED on October 5, 2018 requesting BCCED develop a Post-Remediation Plan (PRCP) as outlined in the SB. Further information concerning the PRCP was outlined in the USEPA's Final Decision and Response to Comments, dated September 28, 2018. The PRCP consists of three parts: Soil Management Plan (with Health and Safety Plan), Inspection and Maintenance Plan, and Groundwater Monitoring Plan. The final PRCP was approved by the USEPA in June 2019. After review of the 2020 Annual Report, it was concluded that long-term groundwater monitoring was no longer necessary as part of the initial September 2018 PRPC per e-mail correspondence between the USEPA and the Pennsylvania Department of Environmental Protection (PADEP) dated July 22, 2020 and July 23, 2020, respectively.

This report documents the inspection and maintenance performed by Civil & Environmental Consultants, Inc. (CEC) since the PRCP was approved and serves as the annual report for 2022. CEC site visits occurred on the following days:

- Third quarter – September 27, 2021
- Fourth quarter – December 15, 2021
- First quarter – March 23, 2022
- Second quarter – June 23, 2022

This report includes details regarding the inspections of the final cover system and site security. Notable observations are included in the narrative. Supporting documentation is provided in the appendices.

2.0 INSPECTION AND MAINTENANCE SUMMARY

2.1 FINAL COVER CONDITION

CEC personnel walked the East Landfill Area during all four quarters to visibly observe the condition of the final covers. The areas observed are depicted on Figure 1 and additional information, including the observation checklist and photographs from the four quarters, are provided in appendices A and B, respectively. Significant findings are summarized below.

- Minor erosion along Poorhouse Run, near former well location EL-7. Seen in all site visits.
- Ponding water observed in the Latex and Phosphate areas 4Q21 and 1Q22. Not observed in 3Q21 or 2Q22.

No animal burrows or other signs of erosion were observed.

2.2 GROUNDWATER MONITORING WELL CONDITION

Groundwater monitoring wells were not evaluated since they were abandoned August 27-28, 2020.

2.3 STORMWATER MANAGEMENT DEVICES

While on-site, CEC personnel visibly observed the condition of the stormwater management devices. The culverts and catch basins observed are depicted on Figure 1 and additional information, including the observation checklist and photographs, are provided in appendices A and B, respectively. There were no significant findings observed. All stormwater management devices appear to be functioning properly.

2.4 EAST LANDFILL AREA SECURITY SYSTEM

While on-site, CEC personnel visibly observed the condition of the fence along the perimeter of the property. The property perimeter is depicted on Figure 1 and additional information, including the observation checklist and photographs, are provided in appendices A and B, respectively. Significant findings are summarized below.

- The fence around the southwest and southeast perimeters, close to the main entrance, is damaged.
- No signs of suspected vandalism were observed.

3.0 CONCLUSION

The final cover remains in good condition, with the cover and vegetation fully established. The only notable issue is minor erosion of the bank along the Poorhouse Run, near former monitoring well location EL-7. A similar erosion pattern has been noted in this area during since 2018, and the extent of erosion has not expanded since that time and appears stable. Lastly, the perimeter fence remains damaged, jeopardizing site security.

FIGURE 1
SITE LAYOUT



OHIO RIVER

POORHOUSE RUN

POORHOUSE RUN

RACCOON CREEK

EL-Culvert #3

EL-Culvert #2

Catch Basin #1

EL-Culvert #1

EL-8

EL-7

EL-6

ROUTE 18

BASF
CORPORATION

NOTE

DISPOSAL AREAS AND MONITORING WELL LOCATIONS ARE APPROXIMATE.

EAST LANDFILL BOUNDARY, PHTHALIC ANHYDRIDE PLANT AREA AND CATCH BASIN WERE GEOREFERENCED & DIGITIZED FROM MAPPING AND THEREFORE, LOCATIONS ARE APPROXIMATE.

REFERENCE

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
[HTTP://GTO.ARCGISONLINE.COM/MAPS/WORLD IMAGERY](http://gto.arcgisonline.com/maps/world_imagery), ACCESSED 7/6/2022.

LOCATIONS ESTIMATED FROM ERM FIGURE 1, "MONITORING WELL LOCATIONS, EAST LANDFILL AREA", DATED 4/23/2014.

EAST LANDFILL AREA BOUNDARY & CATCH BASIN. SURVEYED BY KEYSTONE SURVEYING & MAPPING INC. DATED 7/3/2017. BOUNDARY WAS GEOREFERENCED & DIGITIZED BY CEC ON 3/22/2019.

SCALE IN FEET

0 250 500

LEGEND

- * FORMER MONITORING WELL
- CATCH BASIN
- CULVERT
- LAGOON AREA
- OLD CEMETERY
- PHOSPHATE DEWATERING PITS
- UNLINED LATEX LANDFILL
- UNLINED PHOSPHATE LANDFILL
- UNLINED SANITARY LANDFILL
- PHTHALIC ANHYDRIDE PLANT AREA
- EAST LANDFILL AREA (UPDATED 3/22/2019)
- * MONITORING WELLS ABANDONED AUGUST 27TH, 2020



Civil & Environmental Consultants, Inc.

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DRAWN BY: JLR / SRS

DATE: 7/6/2022

CHECKED BY: BJH

SCALE: 1" = 250'

APPROVED BY: * Hand signature on file MCK*

PROJECT NO: 142-329

SITE LAYOUT & MONITORING WELL LOCATION PLAN

FIGURE NO:

1

\\svr-fs-pit\projects\2014\142-329-GIS\Maps\EN01_Site_Plan\142329_EN01_Site_Layout_20220706.mxd 7/6/2022 12:53 PM (ssml)

APPENDIX A

O & M SITE INSPECTION FORMS

East Landfill Area Operation and Maintenance Plan Inspection Form

Add animal burrows

First Quarter ☐ Second Quarter ☐ Quarterly Inspection: Third Quarter ☒ Fourth Quarter ☐ Year: 2021

INSPECTION ITEM	PROPER FUNCTIONING ¹	OBSERVATIONS ²	NATURE AND DATE OF MAINTENANCE/REPAIR/REPLACEMENT ²
Final Cover System			
Adequate stand of vegetation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of missing vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of stressed vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mowing required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Brush, shrubs, or tree saplings present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of erosion	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of slope failure	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Settlement/subsidence	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Surface water accumulation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Groundwater Monitoring System			
Well casings locked	<input type="checkbox"/> Yes <input type="checkbox"/> No	Wells removed in August 2020. No signs of subsidence at former well locations.	
Locks in good working order	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well identification present	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well integrity			
Casing subsidence	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing blockage	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing cracked and/or broken	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Stormwater Management Devices			
Proper Functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of debris blocking flow	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Site Security			
Fence			
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Attached Photos	
Gates			
Gates present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Proper functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Locks present and locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Locks in good working order	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Signs			
Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Properly secured to fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Quality of lettering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

NOTES:
(1) Indicate with “Yes” or “No” as appropriate.
(2) Use additional sheets as necessary.

INSPECTOR’S SIGNATURE: Ken Robertson (Ken Robertson)

DATE OF INSPECTION: 09/27/21

East Landfill Area Operation and Maintenance Plan Inspection Form

Quarterly Inspection:
First Quarter ☐
Second Quarter ☐
Third Quarter ☐
Fourth Quarter ☒
Year: 2021

INSPECTION ITEM	PROPER FUNCTIONING ¹	OBSERVATIONS ²	NATURE AND DATE OF MAINTENANCE/REPAIR/REPLACEMENT ²
Final Cover System			
Adequate stand of vegetation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of missing vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of stressed vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mowing required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Brush, shrubs, or tree saplings present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of erosion	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of slope failure	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Settlement/subsidence	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Surface water accumulation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Minor-Latex and Phosphate Areas	
Groundwater Monitoring System			
Well casings locked	<input type="checkbox"/> Yes <input type="checkbox"/> No	Wells removed in August 2020. No signs of subsidence at former well locations.	
Locks in good working order	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well identification present	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well integrity			
Casing subsidence	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing blockage	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing cracked and/or broken	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Stormwater Management Devices			
Proper Functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of debris blocking flow	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Site Security			
Fence			
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Attached Photos	
Gates			
Gates present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Proper functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Locks present and locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Locks in good working order	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Signs			
Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Properly secured to fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Quality of lettering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

- NOTES:**
(1) Indicate with “Yes” or “No” as appropriate.
(2) Use additional sheets as necessary.

INSPECTOR’S SIGNATURE: Ken Robertson (Ken Robertson) DATE OF INSPECTION: 12/15/21

East Landfill Area Operation and Maintenance Plan Inspection Form

Quarterly Inspection:
First Quarter ☒
Second Quarter ☐
Third Quarter ☐
Fourth Quarter ☐
Year: 2022

INSPECTION ITEM	PROPER FUNCTIONING ¹	OBSERVATIONS ²	NATURE AND DATE OF MAINTENANCE/REPAIR/REPLACEMENT ²
Final Cover System			
Adequate stand of vegetation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of missing vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of stressed vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mowing required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Brush, shrubs, or tree saplings present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of erosion	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of slope failure	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Settlement/subsidence	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Surface water accumulation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Minor-Latex and Phosphate Areas	
Groundwater Monitoring System			
Well casings locked	<input type="checkbox"/> Yes <input type="checkbox"/> No	Wells removed in August 2020. No signs of subsidence at former well locations.	
Locks in good working order	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well identification present	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well integrity			
Casing subsidence	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing blockage	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing cracked and/or broken	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Stormwater Management Devices			
Proper Functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of debris blocking flow	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Site Security			
Fence			
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Attached Photos	
Gates			
Gates present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Proper functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Locks present and locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Locks in good working order	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Signs			
Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Properly secured to fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Quality of lettering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

- NOTES:**
(1) Indicate with “Yes” or “No” as appropriate.
(2) Use additional sheets as necessary.

INSPECTOR’S SIGNATURE: Ken Robertson (Ken Robertson) DATE OF INSPECTION: 3/23/22

East Landfill Area Operation and Maintenance Plan Inspection Form

Quarterly Inspection:

First Quarter
Second Quarter
Third Quarter
Fourth Quarter

Year: 2022

INSPECTION ITEM	PROPER FUNCTIONING ¹	OBSERVATIONS ²	NATURE AND DATE OF MAINTENANCE/REPAIR/REPLACEMENT ²
Final Cover System			
Adequate stand of vegetation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of missing vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of stressed vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mowing required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Brush, shrubs, or tree saplings present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of erosion	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Evidence of slope failure	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Settlement/subsidence	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Surface water accumulation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Groundwater Monitoring System			
Well casings locked	<input type="checkbox"/> Yes <input type="checkbox"/> No	Wells removed in August 2020. No signs of subsidence at former well locations.	
Locks in good working order	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well identification present	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Well integrity			
Casing subsidence	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing blockage	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing cracked and/or broken	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Stormwater Management Devices			
Proper Functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Evidence of debris blocking flow	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Site Security			
Fence			
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Attached Photos	
Gates			
Gates present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Proper functioning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Locks present and locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Locks in good working order	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Missing sections	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Signs			
Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Properly secured to fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deterioration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Damage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Quality of lettering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

- NOTES:**
(1) Indicate with “Yes” or “No” as appropriate.
(2) Use additional sheets as necessary.

INSPECTOR’S SIGNATURE:  (Ken Robertson)

DATE OF INSPECTION: 6/23/22

APPENDIX B

PHOTO LOGS

September 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Vegetation



Vegetation



Vegetation



Vegetation

Culvert EL-1 and aEL-2
as controls look blocked



Culvert EL-1



Culvert EL-2

September 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Culvert EL-3



Old Cemetery



Catch Basin #1



Covered Manhole



Posted Warning Signs



Posted Warning Signs

September 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Damaged Fence at Main Gate



Damaged Fence, Near Train Tracks



Fence with Signs



Minor Erosion Near EL-7



Main Gate



Signs near the Main Gate



September 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area



Damaged Fence Along Tracks



Damaged Fence Along Tracks



Loose Fence by Railroad



Damaged Fence



Concrete Pad



Shutoff Valve Along Pumphouse Road



December 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Vegetation



Vegetation



Vegetation



Vegetation



Culvert EL-1



Culvert EL-2

December 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Culvert EL-3



Old Cemetery



Catch Basin #1



Pooling Water near Latex and Phosphate Area



Posted Warning Signs



Posted Warning Signs

December 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Damaged Fence at Main Gate



Damaged Fence, Near Train Tracks



Fence with Signs



Minor Erosion Near EL-7



Main Gate



Signs near the Main Gate



December 2021 Inspection and Maintenance Survey
Le Petomane East Landfill Area



Damaged Fence Along Tracks



Damaged Fence Along Tracks



Loose Fence by Railroad



Damaged Fence



Concrete Pad



Shutoff Valve Along Pumphouse Road



March 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Vegetation



Vegetation



Vegetation



Vegetation



Where does
culvert
discharge?
What is the
orange liquid
observed in
March 2022
inspection?

Culvert EL-1



Culvert EL-2

March 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Culvert EL-3



Old Cemetery



Catch Basin #1



Pipe Near BASF Property



Posted Warning Signs



Posted Warning Signs

March 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Damaged Fence at Main Gate



Damaged Fence, Near Train Tracks



Fence with Signs



Minor Erosion Near EL-7



Main Gate



Signs near the Main Gate

**March 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area**



Damaged Fence Along Tracks



Damaged Fence Along Tracks



Loose Fence by Railroad



Pooled Water Phosphate and Latex Area



Concrete Pad



Shutoff Valve Along Pumphouse Road



June 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Vegetation



Vegetation



Vegetation



Vegetation



Culvert EL-1



Culvert EL-2

June 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Culvert EL-3



Old Cemetery



Catch Basin #1



Culvert Pipe



Posted Warning Signs



Posted Warning Signs



June 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area
CEC Project 142-329



Damaged Fence at Main Gate



Damaged Fence, Near Train Tracks



Fence with Signs



Minor Erosion Near EL-7



Open Gate on Access Road



Signs near the Main Gate



**June 2022 Inspection and Maintenance Survey
Le Petomane East Landfill Area**



Fence with Warning Signs



Damaged Fence Along Tracks



Loose Fence by Railroad



Concrete Pad